



Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded

Department of Information Technology

EQUIVALENT COURSES ON NPTEL / SWAYAM COURSES FOR SY IT SEMESTER-III

Course Code	Name of the course	Credits	NPTEL URL	SWAYAM URL	Course Duration (weeks)	Start Date
BSC273	Mathematics-III: Applied Linear Algebra	3	Matrix Analysis With Applications by Prof S K Gupta and Prof Sanjeev Kumar, IITR	Matrix Analysis With Applications by Prof S K Gupta and Prof Sanjeev Kumar, IITR	8	17 August 2020
PCC-IT201	Data Structures	4	https://nptel.ac.in/courses/106/106/106106133/ https://nptel.ac.in/courses/106/103/106103069/	https://swayam.gov.in/nd1_noc20_cs70/preview	8 / 12	20 July 2020
PCC-IT202	Object Oriented Programming	4	https://nptel.ac.in/courses/106/101/106101208/ https://nptel.ac.in/courses/106/105/106105151/	https://swayam.gov.in/nd2_aic20_sp06/preview	8	20 July 2020
PCC-IT203	Discrete Mathematics	4	https://nptel.ac.in/courses/106/103/106103205/ https://nptel.ac.in/courses/111/106/111106086/	https://swayam.gov.in/nd1_noc20_cs82/preview	8	20 July 2020
PCC-IT204	Digital Systems Design	4	https://nptel.ac.in/courses/117/105/117105080/ https://nptel.ac.in/courses/117/108/117108040/ https://nptel.ac.in/courses/106/105/106105185/	--	8	20 July 2020
LAB-IT205	Computer Laboratory – I C-Language	1	https://nptel.ac.in/courses/106/101/106101208/	https://swayam.gov.in/nd1_noc20_cs94/preview	4	20 July 2020

SEMESTER -IV

Course Code	Name of the course	Credits	NPTEL URL	SWAYAM URL	Course Duration (weeks)	Start Date
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PCC-IT206	Computer Organization and Architecture	3	https://nptel.ac.in/noc/courses/noc20/SEM2/noc20-cs64/	--	12	20 July 2020
PCC-IT207	Microprocessors and Interfacing	3	--	--		
PCC-IT208	Java Programming	3	--	--		
PCC-IT210	Elective – I IT Project Management		https://nptel.ac.in/noc/courses/noc20/SEM2/noc20-mg48/		8/12	20 July 2020
PEC-IT213	Elective – I Ethical Hacking and Cyber Law		https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-cs68/		12	20 July 2020
LAB IT-214	Soft Skill Development		https://nptel.ac.in/courses/109/105/109105110/		8	20 July 2020

EQUIVALENT COURSES ON NPTEL / SWAYAM COURSES FOR TY IT SEMESTER -V

Course Code	Name of the Course	Credits	NPTEL URL	Swayam URL	Course Duration (weeks)	Start Date
IT-301	Theory of Computation	4	--	--	--	--
IT-303	Software Engineering	4	https://nptel.ac.in/courses/106/105/106105182/	https://swayam.gov.in/nd1_noc20_cs68/preview	12 Weeks	20 Jul 2020

IT-305	Operating Systems	4	https://nptel.ac.in/courses/106/106/106106144/	https://swayam.gov.in/nd1_noc20_cs75/preview	8 Weeks	20 Jul 2020
IT-307	Data Base Management System	4	https://nptel.ac.in/courses/106/105/106105175/	https://swayam.gov.in/nd1_noc20_cs60/preview	8 Weeks	20 Jul 2020
IT-311	PHP+MySql	1	--	https://swayam.gov.in/nd2_aic20_sp32/preview	12 Weeks	--

SEMESTER-VI

IT302	Data Mining and Data Warehousing	4	--	--		
IT304	Design and Analysis of Algorithms	4	https://nptel.ac.in/courses/106/106/106106131/	https://swayam.gov.in/nd1_noc20_cs71/preview	8	17 Aug
IT306	Computer Networks	3	--	--		
IT308	Software Testing	3	https://nptel.ac.in/courses/106/101/106101163/	https://swayam.gov.in/nd1_noc20_cs77/preview	12	20 July
IT310	Compiler Construction	4	--	--		

EQUIVALENT COURSES ON NPTEL / SWAYAM COURSES FOR B. TECH IT

SEMESTER -VII

Course Code	Name of the Course	Credits	NPTEL URL	Swayam URL	Course Duration(weeks)	Start Date
IT-401	Cryptography and Network Security	3	https://nptel.ac.in/courses/106/105/106105031/			20 July 2020
IT-403	Mobile & Wireless Communication	3	--			
IT-405	E-Commerce	3	--			
IT-407	Introduction to Data Science	3	https://nptel.ac.in/courses/106/106/106106179/		8	20 July 2020
IT-409	Elective-III: Distributed Systems	3	https://nptel.ac.in/courses/106/106/106106107/			
		3	--	--		
		3		https://swayam.gov.in/nd1_noc20_ee96/p_review	12	20 July 2020
		3	https://nptel.ac.in/courses/106/106/106106139/		12	20 July 2020

SEMESTER-VIII

Course Code	Name of the Course	Credits	NPTEL URL	Swayam URL	Course Duration (weeks)	Start Date
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IT-402	ELECTIVE-VI-	A: Cloud Computing	3	https://nptel.ac.in/courses/106/105/106105166/		8	20 July 2020
		B: Internet of Things	3	https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs22		12	20 July 2020
		D: Big Data Analytics	3	https://nptel.ac.in/courses/106/104/106104189/		8	17 Aug 2020
IT-404	ELECTIVE-VII	IT404-A: Pattern Recognition	3	https://nptel.ac.in/courses/117/108/117108048/		-	-
		B: Deep Learning	3	https://nptel.ac.in/courses/106/105/106105215/		12	20 July 2020
		C: Embedded Systems	3	--	https://swayam.gov.in/nd1_noc20_ee98/preview	12	20 July 2020

EQUIVALENT COURSES ON NPTEL / SWAYAM COURSES FOR MTECH IT (FY)

Course Code	Name of the course	Credits	Nptel Course URL	SWAYAM URL	Course Duration	Start Date
PCC-IT-501	Advanced Computer Algorithms	4	https://nptel.ac.in/courses/106/105/106105164/	https://swayam.gov.in/nd1_noc20_cs93/preview	12	20 July
PCC-IT-502	Advanced Computer Networks	4	https://nptel.ac.in/courses/106/105/106105183/	https://swayam.gov.in/nd2_cec20_cs16/preview	8	02 Jun 2020
PCC-IT503	Advanced Operating Systems	4	https://nptel.ac.in/courses/106/102/106102132/	https://swayam.gov.in/nd1_noc20_cs75/preview	8	20 July 2020
PEC-IT-504	Computer Architecture and Parallel Processing	4	https://nptel.ac.in/courses/106/103/106103206/ https://nptel.ac.in/courses/106/102/106102163/	https://swayam.gov.in/nd1_noc20_cs64/preview	8	20 July 2020

PEC-IT-505	Mobile and Wireless Networks	4	-----	https://swayam.gov.in/nd1_noc20_ee61/preview	4	20 July 2020
PEC-IT-506	Big Data Analytics	4	https://nptel.ac.in/courses/106/104/106104189/	https://swayam.gov.in/nd1_noc20_cs92/preview	8	17 August 2020
PEC-IT-507	Data Warehousing and Data Mining	4	https://nptel.ac.in/courses/106/105/106105174/	https://swayam.gov.in/nd2_cec20_cs12/preview	12	10 June 2020
PEC-IT-508	Artificial Neural Network	4	-----	-----	-----	----
PEC-IT-509	Cluster and Grid computing	4	-----	-----		
PEC-IT-510	Pattern Recognition	4	https://nptel.ac.in/courses/106/106/106106046/	-----		
PEC-IT-511	Human and Computer Interaction	4	https://nptel.ac.in/courses/106/106/106106177/	-----		
PEC-IT-512	Image Processing	4	https://nptel.ac.in/courses/106/105/106105032/	https://swayam.gov.in/nd1_noc20_ee75/preview	12	20 July 2020
PEC-IT-513	Machine Learning	4	https://nptel.ac.in/courses/106/106/106106202/	https://swayam.gov.in/nd1_noc20_cs73/preview https://swayam.gov.in/nd1_noc20_ma35/preview	12 8	20 July 2020 17 Aug2020
PEC-IT-515	Software Defined Networking	4	-----	-----		
MCC-590	Research Methodology and IPR	2	https://nptel.ac.in/courses/109/105/109105115/	https://swayam.gov.in/nd2_cec20_ge37/preview	15	6 July 2020
MAC-591	English for Research Paper Writing	0	-----	https://swayam.gov.in/nd2_ntr20_ed30/preview	8	20 july 2020